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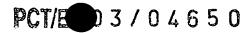
### REQUEST

The undersigned requests that the present international application be processed

## PCT/EP 0 3 / 0 4 6 5 0 International Application No. 02 05 2003 0 2 MAY 2003 International Filing Date **EUROPEAN PATENT OFFICE** PCT INTERNATIONAL APPLICATION

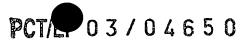
Name of receiving Office and "PCT International Application" according to the Patent Cooperation Treaty. Applicant's or agent's file reference (if desired) (12 characters maximum) 28050P WO TITLE OF INVENTION Box No. I Proteins involved in the regulation of energy homeostasis **APPLICANT** This person is also inventor Box No. II Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. Facsimile No. DeveloGen Aktiengesellschaft für entwicklungsbiologische Forschung Teleprinter No. Rudolf-Wissell-Str. 28 37079 Göttingen Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: DE DE the States indicated in the Supplemental Box This person is applicant all designated States all designated States except the United States of America the United States of America only for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Box No. III Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only **EULENBERG Karsten** applicant and inventor Vom-Stein-Str. 29 inventor only (If this check-box is marked, do not fill in below.) 37120 Bovenden DE Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: This person is applicant all designated States except the United States of America the States indicated in the Supplemental Box all designated States the United States of America only for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf common ★ agent representative of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation.

The address must include postal code and name of country.) Telephone No. 089/455 63-0 WEICKMANN & WEICKMANN Facsimile No. Postfach 860 820 089/455 63-999 Teleprinter No. 81635 München DE Agent's registration No. with the Office Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.



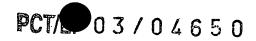
Sheet No. ...2.

| Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)  |   |   |  |  |  |
|--|---|---|--|--|--|
| If none of the following sub-boxes is used, this sheet should not be included in the request.  |   |   |  |  |  |
| Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence STEUERNAGEL Arnd Am Kirschberge 4 37085 Göttingen DE  State (that is, country) of nationality: | e address indicated in this e is indicated below.)                                  | applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  plicant's registration No. with the Office residence:      |  |  |  |
| This person is applicant all designated all designated   | States except  the U  | United States the States indicated in the Supplemental Box  |  |  |  |
| Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.  HÄDER Thomas Wiesenstr. 17 37073 Göttingen DE  | y, full official designation. This e address indicated in this is indicated below.) | applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  plicant's registration No. with the Office                 |  |  |  |
| State (that is, country) of nationality: DE  | State (that is, country) of t   | residence:  |  |  |  |
| This person is applicant all designated for the purposes of:   |   | United States the States indicated in the Supplemental Box  |  |  |  |
| Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence MEISE Martin An der Tränke 10 37079 Göttingen DE  | e address indicated in this   | applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  plicant's registration No. with the Office                 |  |  |  |
| State (that is, country) of nationality: DE  | State (that is, country) of I   | residence:  |  |  |  |
|  | States except the U   | United States the States indicated in the Supplemental Box  |  |  |  |
| Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence BRÖNNER Günter Springstr. 54 37077 Göttingen DE   | e address indicated in this e is indicated below.)  [                               | is person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  plicant's registration No. with the Office |  |  |  |
| State (that is, country) of nationality: DE  | State (that is, country) of re  | esidence:   |  |  |  |
| This person is applicant all designated all designated   | States except the U   | United States the States indicated in the Supplemental Box  |  |  |  |
| Further applicants and/or (further) inventors are indicated on another continuation sheet.   |   |   |  |  |  |



| Во       | x No                   | . <b>V</b>      | DESIGNATION OF STATES  |              | fark the applicable check-boxes below   | at                   | leas               | t one must be marked.   |
|----------|------------------------|-----------------|--|--------------|---|----------------------|--------------------|---|
| Th       | e fol                  | lowin           | g designations are hereby made und   | or D         | nla 4 9/a):   |                      |                    |   |
|          |                        |                 |  | CI K         | uie 4.9(a).   |                      |                    |   |
|          | _                      |                 | atent  |              |   |                      |                    |   |
| (A)      | AP                     | SL<br>Sta       | Sierra Leone, SZ Swaziland, TZ Unte which is a Contracting State of the  | ited<br>he I | bia, KE Kenya, LS Lesotho, MW<br>Republic of Tanzania, UG Uganda, 2<br>Harare Protocol and of the PCT (if of  | LM<br>her            | Zan<br><i>kind</i> | nbia, ZW Zimbabwe, and any other dof protection or treatment desired,                         |
| X        | EA                     | RU              |  |              | aijan, BY Belarus, KG Kyrgyzstan, F<br>Turkmenistan, and any other State w  |                      |                    |   |
|          | EP                     | Rej<br>IE<br>TR | public, <b>DE</b> Germany, <b>DK</b> Denmark<br>Ireland, <b>IT</b> Italy, <b>LU</b> Luxembourg,<br>Turkey, and any other State which | , EE<br>MC   | n, BG Bulgaria, CH & LI Switzerland<br>Estonia, ES Spain, FI Finland, FR<br>Monaco, NL Netherlands, PT Portug<br>Contracting State of the European Pa | rar<br>al, i<br>tent | ice,<br>SE<br>Co   | GB United Kingdom, GR Greece,<br>Sweden, SI Slovenia, SK Slovakia,<br>nvention and of the PCT |
| X        | OA                     | GA<br>TD        | Gabon, GN Guinea, GQ Equatori<br>Chad, TG Togo, and any other Stat   | al G<br>e wl | n, CF Central African Republic, CG uinea, GW Guinea-Bissau, ML Malinich is a member State of OAPI and an dotted line)                                 | , M<br>Co:           | R N<br>ntra        | Mauritania, NE Niger, SN Senegal, cting State of the PCT (if other kind                       |
|          |                        |                 | atent (if other kind of protection or  |              |   |                      |                    |   |
|          |                        |                 | ed Arab Emirates 🔀   |              |   |                      |                    | New Zealand   |
| X        | $\mathbf{AG}$          | Anti            | gua and Barbuda  | HR           | Croatia   | X                    | O <sub>V</sub>     | I Oman  |
| X        | $\mathbf{AL}$          | Alba            | mia  | HU           | Hungary   | X                    | PH                 | Philippines   |
| X        | AM                     | Arm             | enia   | $\mathbf{m}$ | Indonesia   | X                    | PL                 | Poland  |
| X        | $\mathbf{AT}$          | Aust            | ria 🔀  | IL           | Israel  | X                    | PT                 | Portugal  |
|          |                        |                 |  |              | India   |                      |                    |   |
| X        | $\mathbf{AZ}$          | Azer            | rbaijan 🔀  | IS           | Iceland   | X                    | RU                 | Russian Federation  |
|          |                        |                 |  |              | Japan   |                      |                    |   |
| X        | $\mathbf{B}\mathbf{B}$ | Barb            | oados 🔀  | KE           | Kenya   | X                    | SC                 | Seychelles  |
| X        | $\mathbf{BG}$          | Bulg            | garia 🗶  | KG           | Кутgyzstan  | X                    | SD                 | Sudan   |
|          |                        |                 |  | KP           |   | -                    |                    | Sweden  |
| X        | $\mathbf{BY}$          | Bela            | rus  |              | of Korea  | X                    | SG                 | Singapore   |
|          |                        |                 |  |              | Republic of Korea   |                      |                    |   |
|          |                        | Cana            |  |              | Kazakhstan  |                      |                    |   |
|          |                        |                 | I Switzerland and Liechtenstein 🛮 🛣  |              |   |                      |                    | Tajikistan  |
|          |                        |                 | ıa 🔀   |              |   |                      |                    | I Turkmenistan  |
|          |                        |                 |  |              | 2100110   |                      |                    | Tunisia   |
|          |                        |                 | a Rica 🔀   |              |   |                      |                    | Turkey  |
|          |                        |                 | a  |              |   | X                    | TT                 | Trinidad and Tobago   |
|          |                        |                 | ch Republic 🔀  |              |   |                      |                    |   |
|          |                        |                 | nany 🕱   |              |   |                      |                    | United Republic of Tanzania   |
|          |                        |                 |  | MA           | Morocco   | X                    | UA                 | Ukraine   |
| X        | DM                     | Dom             | inica 🔀  | ME           | Republic of Moldova   |                      |                    |   |
|          |                        |                 | ria  |              |   |                      | US                 | United States of America  |
|          |                        |                 |  |              | Madagascar  |                      |                    |   |
|          |                        |                 |  | MK           | The former Yugoslav Republic of   |                      |                    |   |
| X        | ES                     | Spain           | n  |              | Macedonia   | X                    | VC                 | Saint Vincent and the Grenadines  |
|          |                        |                 | ınd 🖾  |              |   |                      |                    | Viet Nam  |
| X        | GB                     | Unite           | ed Kingdom   | ΜV           | VMalawi   | X                    | YU                 | Yugoslavia  |
| X        | GD                     | Gren            | ada  | MX           | Mexico  | X                    | ZA                 | South Africa  |
| X        | GE                     | Geor            | gia 🔀  | MZ           | Mozambique  | X                    | ZM                 | I Zambia  |
|          |                        |                 | na   |              |   |                      |                    | Zimbabwe  |
|          |                        |                 |  |              | •   | ^                    |                    |   |
|          |                        |                 |  |              | hich have become party to the PCT a   |                      |                    |   |
|          |                        |                 |  |              |   |                      |                    |   |
| <u> </u> | • • • •                | • • • • •       |  | • • • •      |   | <u>Ц</u>             |                    |   |
|          |                        |                 |  |              |   |                      | "                  |   |

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)



Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

## "ADDITIONAL REPRESENTATIVES"

Names

Dipl.-Ing. Franz Albert Weickmann Dipl.-Chem. Bernhard Huber

Dr.-Ing. Horst Liska

Dipl.-Phys. Dr.

Dipl.-Chem. Dr.

Dipl.-Chem. Dr.

Dipl.-Chem. Dr.

Wolfgang Weiß

Dipl.-Phys. Dr. Johannes Tiesmeyer

Dipl.-Phys. Dr. Markus Herzog Dipl.-Phys. Bernhard Rutter

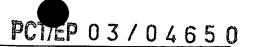
Dipl.-Phys. Bernhard Ruttensperger Volker Jordan

Dipl.-Chem. Dr. Michael Dey

| Sheet | No. |  | .5 |  |
|-------|-----|--|----|--|
|       |     |  |    |  |

PCT/EP 03/04650

| Box No. VI PRIORITY CLAIM  |   |  |   |   |  |  |
|--|---|--|---|---|--|--|
| The priority of the following earlier application(s) is hereby claimed:  |   |  |   |   |  |  |
| Filing date  | Number  | Where earlier application is:                              |   |   |  |  |
| of earlier application (day/month/year)  | of earlier application  | national application:<br>country or Member<br>of WTO       | regional application:* regional Office                  | international application:<br>receiving Office          |  |  |
| item (1)<br>May 02, 2002<br>(0, <b>2, 05, 02</b> )   | 02 009 883.6  |  | EP  |   |  |  |
| item (2)<br>May 07, 2002<br>07, 05, 02)  | 02 010 332.1  |  | EP  |   |  |  |
| May 16, 2002   | 02 010 948.4  |  | EP  |   |  |  |
| item (4)   |   |  |   |   |  |  |
| item (5)   |   |  |   |   |  |  |
| Further priority claims a  | are indicated in the Suppleme                                 | ntal Box.  |   |   |  |  |
| The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: |   |  |   |   |  |  |
| all items item (   | 1) item (2)   | item (3) item  | (4) item (5)  | other, see Supplemental Box                             |  |  |
| * Where the earlier application Industrial Property or one Me  | on is an ARIPO application, in<br>ember of the World Trade Or | dicate at least one country<br>ganization for which that e | party to the Paris Conve<br>carlier application was fil | ention for the Protection of<br>led (Rule 4.10(b)(ii)): |  |  |
| Box No. VII INTERNAT   | IONAL SEARCHING AUT   | THORITY  |   |   |  |  |
| Choice of International Sea<br>international search, indicate  | rching Authority (ISA) (if the Authority chosen; the two      | wo or more International S<br>-letter code may be used):   | Searching Authorities are                               | competent to carry out the                              |  |  |
| ISA /  |   |  |   |   |  |  |
| Request to use results of ea<br>International Searching Author   |   | hat search (if an earlier se                               | earch has been carried ou                               | at by or requested from the                             |  |  |
| Date (day/month/year):   | Numb  | er Coun  | try (or regional Office)                                |   |  |  |
| Box No. VIII DECLARATIONS  |   |  |   |   |  |  |
| The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable  Number of declarations and indicate in the right column the number of each type of declaration):  |   |  |   |   |  |  |
| Box No. VIII (i)   | Declaration as to the identity                                | y of the inventor  |   | :   |  |  |
| Box No. VIII (ii)  | Declaration as to the applic<br>date, to apply for and be gr  |  | e international filing                                  | :   |  |  |
| Box No. VIII (iii)   | Declaration as to the applicate, to claim the priority of     |  | ne international filing                                 | :   |  |  |
| Box No. VIII (iv)  | Declaration of inventorship<br>United States of America)      | o (only for the purposes of                                | f the designation of the                                | :   |  |  |
| Box No. VIII (v)   | Declaration as to non-preju                                   | dicial disclosures or exce                                 | ptions to lack of novelty                               | :   |  |  |



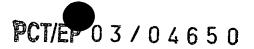
Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

# Declaration of inventorship (Rules 4 17(iv) and 51his 1(a)(iv))

| for the purposes of the designation  | of the United States of America:  |  |  |  |  |  |
|--|---|--|--|--|--|--|
| I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and  | one inventor is listed below) or joint (if more than one inventor for which a patent is sought.                                   |  |  |  |  |  |
| This declaration is directed to the international application of which it forms a part (if filing declaration with application).   |   |  |  |  |  |  |
| This declaration is directed to international application No. PCT/ to Rule $26ter$ ).  | (if furnishing declaration pursuant   |  |  |  |  |  |
| I hereby declare that my residence, mailing address, and citizenship   | are as stated next to my name.  |  |  |  |  |  |
| I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed. |   |  |  |  |  |  |
| Prior Applications: EP 02 009 883.6 of May 02, 2002; EP 0 EP 02 010 948.4 of May 16, 2002  | 12 010 332.1 of May 07, 2002 and  |  |  |  |  |  |
| I hereby acknowledge the duty to disclose information that is 37 C.F.R. § 1.56, including for continuation-in-part applications, mat of the prior application and the PCT international filing date of the   | erial information which became available between the filing date  |  |  |  |  |  |
| I hereby declare that all statements made herein of my own knowledg<br>are believed to be true; and further that these statements were made<br>made are punishable by fine or imprisonment, or both, under Section<br>false statements may jeopardize the validity of the application or an  | with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such willful |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Residence: Bovenden, Germany (city and either US state, if applicable, or country)   |   |  |  |  |  |  |
| Mailing Address: Vom-Stein-Str. 29, 37120 Bovenden, Ger  | many  |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Citizenship: DE  |   |  |  |  |  |  |
| Inventor's Signature:  | Date:   |  |  |  |  |  |
| Name: Steuernagel Arnd   |   |  |  |  |  |  |
| Residence: Göttingen, Germany (city and either US state, if applicable, or country)  |   |  |  |  |  |  |
| Mailing Address: Am Kirschberge 4, 37085 Göttingen, Germany  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Citizenship: DE  |   |  |  |  |  |  |
| Inventor's Signature:  | Date:   |  |  |  |  |  |
|  |   |  |  |  |  |  |

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".



| Continuation | of Box No.  | VIII (i  | ) to (v                                 | DECLARATION |
|--------------|-------------|----------|---|-------------|
|              | O1 DOX 110. | , TTT /: | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | DECEANATION |

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

| Name: Häder Thomas   |  |
|--|--|
| Residence: Göttingen Germany<br>(city and either US state, if applicable, or country)  | <i>p</i>   |
|  | 0.73 Göttingen, Germany  |
|  |  |
| Citizenship:German   |  |
| Inventor's Signature:  | rected or (of signature which is not contained in the request, or of the<br>remational declaration that is corrected or added under Rule 26ter after the   |
|  |  |
| Residence: Gottingen, Germany (city and either US state, if applicable, or country)  | r  |
| Mailing Address: An. der. Tränke. 10,  | ··37079··Göttingen; Germany ·····  |
|  |  |
| Citizenship: German  |  |
| Inventor's Signature:  | Date:  Tected or (of signature which is not contained in the request, or of the mational declaration that is corrected or added under Rule 26ter after the   |
|  |  |
| Name: Brönner Günter Residence: Göttingen, Germany (city and either US state, if applicable, or country)   |  |
| Name: Brönner Günter Residence: Göttingen, Germany (city and either US state, if applicable, or country) Mailing Address: Springstr. 54, 3   | 7077 Göttingen, Germany  |
| Name: Brönner Günter Residence: Göttingen, Germany (city and either US state, if applicable, or country) Mailing Address: Springstr. 54, 3   | 7077 Göttingen, Germany  |
| Name: Brönner Günter Residence: Göttingen, Germany (city and either US state, if applicable, or country) Mailing Address: Springstr. 54, 3   | 7077 Göttingen, Germany  Date:  rected or (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the   |
| Name: Brönner Günter  Residence: Göttingen, Germany (city and either US state, if applicable, or country)  Mailing Address: Springstr. 54, 3  Citizenship: German  Inventor's Signature: (if not contained in the request, or if declaration is con added under Rule 26ter after the filing of the interapplication. The signature must be that of the inventor, on the agent)   | 7077 Göttingen, Germany  Date:  rected or (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the   |
| Name: Brönner Günter  Residence: Göttingen, Germany (city and either US state, if applicable, or country)  Mailing Address: Springstr. 54, 3  Citizenship: German.  Inventor's Signature: (if not contained in the request, or if declaration is con added under Rule 26ter after the filing of the interapplication. The signature must be that of the inventor, in the agent)  Name:  Residence:   | 7077 Göttingen, Germany  Date: rected or mational declaration that is corrected or added under Rule 26ter after the filing of the international application)   |
| Name: Brönner Günter  Residence: Göttingen, Germany (city and either US state, if applicable, or country)  Mailing Address: Springstr. 54, 3  Citizenship: German  Inventor's Signature: (if not contained in the request, or if declaration is contained under Rule 26ter after the filing of the interapplication. The signature must be that of the inventor, in the agent)  Name:  Residence: (city and either US state, if applicable, or country)                    | 7077 Göttingen, Germany  Date: rected or mational declaration that is corrected or added under Rule 26ter after the filing of the international application)   |
| Name: Brönner Günter  Residence: GÖttingen, Germany (city and either US state, if applicable, or country)  Mailing Address: Springstr. 54, 3  Citizenship: German  Inventor's Signature: (if not contained in the request, or if declaration is con added under Rule 26ter after the filing of the interapplication. The signature must be that of the inventor, on the agent)  Name: Residence: (city and either US state, if applicable, or country)  Mailing Address:   | 7077 Göttingen, Germany  Date:  (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)          |
| Name: Brönner Günter  Residence: Göttingen, Germany (city and either US state, if applicable, or country)  Mailing Address: Springstr. 54, 3  Citizenship: German.  Inventor's Signature: (if not contained in the request, or if declaration is contained under Rule 26ter after the filing of the interapplication. The signature must be that of the inventor, in the agent)  Name:  Residence: (city and either US state, if applicable, or country)  Mailing Address: | 7077 Göttingen, Germany  Date: rected or (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application) |

Sheet No. ...8...

| Box No. IX CHECK LIST; LANGUAGE OF FILING   |   |              |  |  |  |
|---|---|--------------|--|--|--|
| This international application contains:  | This international application is accompanied by the following  | Number       |  |  |  |
| (a) in paper form, the following number of sheets:  | item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):   | of items     |  |  |  |
| request (including declaration sheets) : 8  | 1. K fee calculation sheet  | :            |  |  |  |
| description (excluding  | 2.  original separate power of attorney   | :            |  |  |  |
| sequence listings and/or  | 3. Original general power of attorney   | :            |  |  |  |
| tables related thereto) : 64  | 4. copy of general power of attorney; reference number, if any:   |              |  |  |  |
| claims : 8 abstract : 1   | 5. ☐ statement explaining lack of signature   |              |  |  |  |
|   | 6. priority document(s) identified in Box No. VI as   | •            |  |  |  |
| Grawings : 51 Sub-total number of sheets : 132  | item(s):  | :            |  |  |  |
| sequence listings :   | 7. translation of international application into (language):  | :            |  |  |  |
| tables related thereto :  (for both, actual number of   | 8. separate indications concerning deposited microorganism or other biological material   |              |  |  |  |
| sheets if filed in paper form,<br>whether or not also filed in  | 9. sequence listings in computer readable form  | •            |  |  |  |
| computer readable form; see (c) below)  | (indicate type and number of carriers)  (i) □ copy submitted for the purposes of international search under   |              |  |  |  |
| Total number of sheets : 132  | Rule 13ter only (and not as part of the international application   | ):           |  |  |  |
| (b) only in computer readable form  | (ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter | :            |  |  |  |
| (Section 801(a)(i)) (i) ☐ sequence listings   | (iii) together with relevant statement as to the identity of the copy of copies with the sequence listings mentioned in left column   | r .          |  |  |  |
| (ii) ☐ tables related thereto (c) ☐ also in computer readable form  | 10.   tables in computer readable form related to sequence listings   | •            |  |  |  |
| (Section 801(a)(ii))  | <ul> <li>(indicate type and number of carriers)</li> <li>(i) ☐ copy submitted for the purposes of international search under</li> </ul>   |              |  |  |  |
| <ul><li>(i) ☐ sequence listings</li><li>(ii) ☐ tables related thereto</li></ul>   | Section 802(b-quater) only (and not as part of the international application)   |              |  |  |  |
| Type and number of carriers (diskette,  | (ii) (iii) (iii) (iii) or (c)(ii) is marked in left column)   | •            |  |  |  |
| CD-ROM, CD-R or other) on which are contained the   | additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)  | :            |  |  |  |
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| tables related thereto:   | 11. \( \square\) other (specify):   |              |  |  |  |
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| Figure of the drawings which  | Language of filing of the international amplication english   |              |  |  |  |
| should accompany the abstract:  Box No. X SIGNATURE OF APPLICANT  | international application: English T, AGENT OR COMMON REPRESENTATIVE  |              |  |  |  |
|   | ing and the capacity in which the person signs (if such capacity is not obvious from reading t  | he request). |  |  |  |
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| Dr. W. W.   | N 0 2. Mai 2003   |              |  |  |  |
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| Date of actual receipt of the purported international application:  | 0 2 MAY 2003 (0 2. 05. 03) 2. Drawi   | ngs:         |  |  |  |
|   | rece  | ived:        |  |  |  |
| 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: |   |              |  |  |  |
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